

What is claimed is:

1. A dispersal system for fire suppression material for use with an airborne craft, the system comprising:
  - a vessel for holding at least one fire suppressant material therein, the vessel being secured within or adjacent to an airborne craft;
  - a dispenser for controllably dispensing the at least one fire suppressant material from the vessel; and
  - a conduit, the conduit having a first end secured in fluid communication with the vessel and a second end adapted for controllably directing the dispensed material adjacent to ground level.
2. The dispersal system of claim 1 wherein the conduit extends from about 50 feet to about 150 feet from beneath the airborne craft.
3. The dispersal system of claim 1 further comprising a release mechanism secured to the airborne craft interposed between the vessel and the conduit for separation of the conduit from the vessel.
4. The dispersal system of claim 1 wherein the dispenser has a plurality of vanes therein for directing dispensed material therethrough.
5. The dispersal system of claim 1 wherein the dispenser symmetrically directs dispensed material about a central axis.
6. The dispersal system of claim 5 wherein the dispenser rotates about the central axis to dispense dispensed material.
7. The dispersal system of claim 1 wherein the dispenser non-symmetrically directs dispensed material in a direction away from a central axis.
8. The dispersal system of claim 1 wherein the dispenser includes a pair of nested housings of similar geometric profiles.

9. The dispersal system of claim 8 wherein the nested housings are controllably spaced to control the amount of material dispensed.
10. The dispersal system of claim 1 wherein the second end may direct the dispensed material in at least one stream.
11. The dispersal system of claim 1 wherein the second end of the conduit comprising a valve and a dispenser head for controllably directing the dispensed material adjacent to ground level.
12. The dispersal system of claim 1 wherein the dispensed material may be dispensed from ground level to about three hundred feet above ground level.
13. The dispersal system of claim 11 wherein the second end of the conduit further comprising a shroud surrounding the valve and dispenser head to provide for the valve and dispenser head.
14. The dispersal system of claim 13 wherein the shroud has a circular conical profile.
15. The dispersal system of claim 13 wherein the shroud has a rectangular conical profile.
16. The dispersal system of claim 11 wherein the dispenser head may direct dispensed material at a dispensing angle measuring from zero degrees from vertical to about ninety degrees from vertical.
17. The dispersal system of claim 11 wherein the dispenser head has a plurality of vanes therein for directing dispensed material therethrough.
18. The dispersal system of claim 11 wherein the dispenser head symmetrically directs dispensing material about a central axis.
19. The dispersal system of claim 18 wherein the dispenser head rotates about the central axis to dispense dispensing material.
20. The dispersal system of claim 11 wherein the dispenser head non-symmetrically directs dispensing material in a direction away from a central axis.

21. The dispersal system of claim 11 wherein the dispenser head includes a pair of nested housings of similar geometric profiles.
22. The dispersal system of claim 21 wherein the nested housings are controllably spaced to control the amount of material dispensed.
23. A dispersal system for fire suppression comprising:
  - an airborne craft;
  - a vessel for holding at least one fire suppressant material therein, the vessel being secured within or adjacent to the airborne craft;
  - a dispenser for controllably dispensing the at least one fire suppressant material from the vessel;
  - a conduit, the conduit having a first end secured in fluid communication with the vessel and a second end having a valve and a dispensing end for controllably directing the dispensed material adjacent to ground level;
  - a shroud surrounding the valve and dispenser head; and
  - a release mechanism secured to the airborne craft interposed between the vessel and the conduit for separation of the conduit from the airborne craft.
24. The dispersal system of claim 23 wherein a swath of fire suppressant material exiting the shroud is substantially controlled by a draft generated by the airborne craft and an amount of pressure dispensing the fire suppressant material from the dispenser.
25. The dispersal system of claim 23 wherein a portion of the shroud surrounding the valve and dispenser head has a cylindrical profile.
26. The dispersal system of claim 23 wherein the shroud further includes a partition for separating the valve and the dispenser.
27. The dispersal system of claim 23 wherein the shroud is from 0 to about 50 feet above ground level.
28. The dispersal system of claim 23 wherein the shroud is from about 20 to about 25 feet above ground level.